



# Assignment No: 1

Programme: \_\_\_\_\_

Semester: \_\_\_\_\_

**Submitted by:-**

<b>Student Name :</b>	
<b>Enrollment No :</b>	
<b>Roll No. :</b>	
<b>Date of Submission:</b>	

**Submitted to:-**

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**Programme: BCA IV Sem**

**Course Name: COMPUTER ARCHITECTURE & ASSEMBLY LANGUAGE**

**Course Code: BCA-221**

**Assignment No: 1**

**Due date of submission: 12.03.2018**

### **Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

### **Q.1**

- a) What do you mean by Registers? Explain all types of register in detail.
- b) Define the following.
  - (i) Instruction cycle
  - (ii) Micro-operations

### **Q.2**

- a) What do you mean by computer instructions? Explain all types of instructions used in computers.
- b) Differentiate between Direct and indirect address.



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**Programme: BCA IV Sem**

**Course Name: COMPUTER GRAPHICS & MULTIMEDIA APPLICATION**

**Course Code: BCA-222**

**Assignment No: 1**

**Due date of submission: 12.03.2018**

### **Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

### **Q.1**

**a)** As you know the Computer Graphics (CG). So, you can define it and give its real life applications in detail. Do it.

**b)** As you are aware of Display System. So, you can differentiate Raster and Random scan display system. Do it.

### **Q.2**

**a)** As you are aware of DDA line drawing algorithm. So, you can explain it to draw a line from (0, 0) to (4, 5). Do it.

**b)** As you are aware of video controller and frame buffer. You will learn more, if you attempt to explain them with the help of their architecture. Go ahead.



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**Programme: BCA IV Sem**  
**Course Name: JAVA PROGRAMMING**  
**Course Code: BCA-223**  
**Assignment No: 1**  
**Due date of submission: 12.03.2018**

### **Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

### **Q.1**

- a) Explain all the features of Java.
- b) Explain all the data types of Java in detail.

### **Q.2**

- a) Explain all the branches statement in Java with syntax and suitable example of each.
- b) Explain all the operators of Java in detail.



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**Programme: BCA IV Sem**

**Course Name: DATA WARE HOUSING & DATA MINING**

**Course Code: BCA-224-2**

**Assignment No: 1**

**Due date of submission: 12.03.2018**

### **Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

### **Q.1**

- (a) As we know that data ware house systems are very essential for academic communities and industries. So write the meaning of data warehouse and its features.
- (b) Explain the advantages of data warehousing. It will help you to learn more.

### **Q.2**

- (a) As we know that there are many fields where data warehouse technologies are successfully used. So explain some fields of applications where data warehouse technologies are used.
- (b) We know that, there are three layers architecture of data warehousing. Write the essential properties for a data warehouse system.



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**Programme: BCA IV Sem**

**Course Name: CRYPTOGRAPHY & NETWORK SECURITY**

**Course Code: BCA-225-1**

**Assignment No: 1**

**Due date of submission: 12.03.2018**

### **Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

### **Q.1**

(a) As you know, in *classical cryptography*, the various parameters used by a decryption *algorithm* are derived from the same secret key that was used in the *encryption algorithm*. Explain the concept of classical encryption techniques?

(b) Differentiate between active attacks and passive attacks in brief.

### **Q.2**

(a) As we know that there are three layers of OSI network security. So can you explain the security mechanism in detail?

(b) As we know that security services are the main component to secure our data. So can you explain types of security services it will help you learn more about the topic?